

SCORE Search Results Details for Application 10552515 and Search Result 20080624_135844_us-10-552-515-1_copy_157_933.rapbm.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10552515 and Search Result 20080624_135844_us-10-552-515-1_copy_157_933.rapbm.

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OM protein - protein search, using sw model

Run on: June 24, 2008, 15:31:23 ; Search time 345 Seconds
(without alignments)
2090.033 Million cell updates/sec

Title: US-10-552-515-1_COPY_157_933
Perfect score: 4123
Sequence: 1 QQDVQDGNTTVHYALLSASW.....SELSSHWTPTVTPKASQLQQ 777

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4051641 seqs, 928007118 residues

Total number of hits satisfying chosen parameters: 4051641

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_Main:*

- 1: /ABSS/Data/CRF/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /ABSS/Data/CRF/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /ABSS/Data/CRF/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /ABSS/Data/CRF/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 5: /ABSS/Data/CRF/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /ABSS/Data/CRF/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
- 7: /ABSS/Data/CRF/ptodata/1/pubpaa/US11B_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	%		DB	ID	Description
		Query	Match Length			
1	4123	100.0	933	5	US-10-552-515-1	Sequence 1, Appli
2	3739	90.7	885	7	US-11-599-845A-700	Sequence 700, App
3	3572	86.6	843	7	US-11-599-845A-698	Sequence 698, App
4	3031.5	73.5	898	5	US-10-450-763-45847	Sequence 45847, A
5	1502.5	36.4	920	4	US-10-104-047-2574	Sequence 2574, Ap
6	1502.5	36.4	920	6	US-11-072-512-2574	Sequence 2574, Ap
7	1498.5	36.3	981	6	US-11-582-861-10841	Sequence 10841, A
8	1471.5	35.7	981	6	US-11-443-428A-801153	Sequence 801153,
9	1471.5	35.7	1046	6	US-11-582-861-9875	Sequence 9875, Ap
10	1461.5	35.4	840	6	US-11-177-894-11	Sequence 11, Appl
11	1456.5	35.3	960	6	US-11-177-894-7	Sequence 7, Appli
12	1437	34.9	999	6	US-11-443-428A-774192	Sequence 774192,
13	1417	34.4	800	6	US-11-443-428A-739452	Sequence 739452,
14	1417	34.4	800	6	US-11-443-428A-739454	Sequence 739454,
15	1416	34.3	853	6	US-11-443-428A-739456	Sequence 739456,
16	1378.5	33.4	1219	6	US-11-097-143-15228	Sequence 15228, A
17	1369	33.2	910	5	US-10-484-148-14	Sequence 14, Appl
18	1367.5	33.2	712	6	US-11-177-894-10	Sequence 10, Appl
19	1352.5	32.8	891	6	US-11-582-861-10193	Sequence 10193, A
20	1344	32.6	1075	6	US-11-097-143-24771	Sequence 24771, A
21	1159.5	28.1	1058	6	US-11-097-143-21858	Sequence 21858, A
22	1154	28.0	596	4	US-10-104-047-2541	Sequence 2541, Ap
23	1154	28.0	596	6	US-11-072-512-2541	Sequence 2541, Ap
24	1061.5	25.7	594	5	US-10-631-467-681	Sequence 681, App
25	1061.5	25.7	594	5	US-10-529-348-1242	Sequence 1242, Ap
26	1061.5	25.7	594	5	US-10-917-503-10953	Sequence 10953, A
27	1061.5	25.7	594	6	US-11-177-894-8	Sequence 8, Appli
28	1043.5	25.3	825	6	US-11-443-428A-1026041	Sequence 1026041,
29	1024.5	24.8	782	4	US-10-066-543-1424	Sequence 1424, Ap
30	1024.5	24.8	793	6	US-11-443-428A-1026033	Sequence 1026033,
31	912.5	22.1	475	4	US-10-104-047-3116	Sequence 3116, Ap
32	912.5	22.1	475	6	US-11-072-512-3116	Sequence 3116, Ap
33	905	22.0	756	5	US-10-692-382-446	Sequence 446, App
34	886	21.5	573	6	US-11-443-428A-774194	Sequence 774194,
35	881.5	21.4	550	6	US-11-443-428A-774193	Sequence 774193,
36	873.5	21.2	642	4	US-10-108-260A-4483	Sequence 4483, Ap
37	873.5	21.2	642	6	US-11-177-894-9	Sequence 9, Appli
38	873.5	21.2	642	6	US-11-293-697-4483	Sequence 4483, Ap
39	829	20.1	631	6	US-11-443-428A-739453	Sequence 739453,
40	819.5	19.9	443	4	US-10-264-049-2917	Sequence 2917, Ap
41	801.5	19.4	853	6	US-11-443-428A-1026043	Sequence 1026043,
42	784.5	19.0	390	4	US-10-264-237-2758	Sequence 2758, Ap
43	735	17.8	139	3	US-09-957-708-31	Sequence 31, Appl
44	735	17.8	139	6	US-11-230-251-31	Sequence 31, Appl
45	691.5	16.8	306	6	US-11-443-428A-879642	Sequence 879642,

ALIGNMENTS

RESULT 1
US-10-552-515-1
; Sequence 1, Application US/10552515
; Publication No. US20060194204A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; APPLICANT: represented by the Secretary of the Department of Health and
; APPLICANT: Human Services
; APPLICANT: Bera, Tapan K.
; APPLICANT: Pastan, Ira H.
; APPLICANT: Lee, Byungkook
; TITLE OF INVENTION: GENE EXPRESSED IN PROSTATE CANCER AND METHODS OF USE
; FILE REFERENCE: 4239-68223-02
; CURRENT APPLICATION NUMBER: US/10/552,515
; CURRENT FILING DATE: 2005-10-06
; PRIOR APPLICATION NUMBER: PCT/US2004/10588
; PRIOR FILING DATE: 2004-04-05
; PRIOR APPLICATION NUMBER: 60/461,399
; PRIOR FILING DATE: 2003-04-08
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 933
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Splice Variant-Novel Gene Expressed in Prostate
US-10-552-515-1

Query Match 100.0%; Score 4123; DB 5; Length 933;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 777; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	60
Db	157	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	216
Qy	61	LEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	120
Db	217	LEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	276
Qy	121	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	180
Db	277	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	336
Qy	181	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	240
Db	337	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	396
Qy	241	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	300
Db	397	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	456
Qy	301	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV	360

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Db      457 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV 516
Qy      361 SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTRWEM 420
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Db      517 SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTRWEM 576
Qy      421 HRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 480
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      577 HRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 636
Qy      481 LIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFRLRSKKRKAGASAGASQGPWEDDY 540
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      637 LIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFRLRSKKRKAGASAGASQGPWEDDY 696
Qy      541 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFA LLNNWVEIRLDARKFVCEYRRPVA 600
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      697 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFA LLNNWVEIRLDARKFVCEYRRPVA 756
Qy      601 ERAQDIGIWFHILAGLTHLAVISNAFLLA FSSDFLPRAYYRWTRAHDLRGFLNFTLARAP 660
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      757 ERAQDIGIWFHILAGLTHLAVISNAFLLA FSSDFLPRAYYRWTRAHDLRGFLNFTLARAP 816
Qy      661 SSFAAAHNRTCryRAFRDDDDGHYSQTYWNLLAIRLAFVIVFEHVVF SVGRLLDLLVPDIP 720
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Db      817 SSFAAAHNRTCryRAFRDDDDGHYSQTYWNLLAIRLAFVIVFEHVVF SVGRLLDLLVPDIP 876
Qy      721 ESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHWPFTVPKASQLQQ 777
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      877 ESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHWPFTVPKASQLQQ 933

```

RESULT 2

US-11-599-845A-700

; Sequence 700, Application US/11599845A

; Publication No. US20080025981A1

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ebner, Reinhard

; APPLICANT: Weaver, Zoe

; APPLICANT: Strovel, Jeffrey W.

; APPLICANT: Horrigan, Stephen K.

; APPLICANT: Shea, Martin

; APPLICANT: Weigle, Bernd

; APPLICANT: Rieger, Michael

; APPLICANT: Rick, Jennifer A.

; APPLICANT: Cain, Colyn B.

; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy

; FILE REFERENCE: 689290-273

; CURRENT APPLICATION NUMBER: US/11/599,845A

; CURRENT FILING DATE: 2006-11-15

; PRIOR APPLICATION NUMBER: 10/585,466

; PRIOR FILING DATE: 2005-01-04

; PRIOR APPLICATION NUMBER: PCT/US2005/000040

; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: 10/583,832
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: PCT/US2004/42406
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: 10/575,337
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 700
; LENGTH: 885
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-599-845A-700

Query Match 90.7%; Score 3739; DB 7; Length 885;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 702; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	60
Db	158	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	217
Qy	61	LEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	120
Db	218	LEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	277
Qy	121	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	180
Db	278	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	337
Qy	181	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	240
Db	338	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	397
Qy	241	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	300
Db	398	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	457
Qy	301	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV	360
Db	458	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV	517

Qy	361	SIILYRAIMAIVVSRSNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLRWEM	420
Db	518	SIILYRAIMAIVVSRSNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLRWEM	577
Qy	421	HRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	480
Db	578	HRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	637
Qy	481	LIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY	540
Db	638	LIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY	697
Qy	541	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA	600
Db	698	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA	757
Qy	601	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP	660
Db	758	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP	817
Qy	661	SSFAAAHNRTCERYRAFRDDDDGHYSQTYWNLLAIRLAFVIVFE	702
Db	818	SSFAAAHNRTCERYRAFRDDDDGHYSQTYWNLLAIRLAFVIVFE	859

RESULT 3

US-11-599-845A-698

; Sequence 698, Application US/11599845A
; Publication No. US20080025981A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ebner, Reinhard
; APPLICANT: Weaver, Zoe
; APPLICANT: Strovel, Jeffrey W.
; APPLICANT: Horrigan, Stephen K.
; APPLICANT: Shea, Martin
; APPLICANT: Weigle, Bernd
; APPLICANT: Rieger, Michael
; APPLICANT: Rick, Jennifer A.
; APPLICANT: Cain, Colyn B.
; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy
; FILE REFERENCE: 689290-273
; CURRENT APPLICATION NUMBER: US/11/599,845A
; CURRENT FILING DATE: 2006-11-15
; PRIOR APPLICATION NUMBER: 10/585,466
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: PCT/US2005/000040
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: 10/583,832
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: PCT/US2004/42406
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: 10/575,337
; PRIOR FILING DATE: 2004-10-07

; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 698
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-599-845A-698

Query Match 86.6%; Score 3572; DB 7; Length 843;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 671; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	60
Db	158	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	217
Qy	61	LEVVPDVPPEYYSCRFRVNLKPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	120
Db	218	LEVVPDVPPEYYSCRFRVNLKPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	277
Qy	121	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	180
Db	278	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	337
Qy	181	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	240
Db	338	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	397
Qy	241	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	300
Db	398	CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD	457
Qy	301	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV	360
Db	458	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV	517
Qy	361	SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTRWEM	420
Db	518	SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTRWEM	577
Qy	421	HRTQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	480
Db	578	HRTQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	637

Qy	481	LIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY	540
Db	638	LIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY	697
Qy	541	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVA	600
Db	698	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVA	757
Qy	601	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP	660
Db	758	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP	817
Qy	661	SSFAAAHNRTC	671
Db	818	SSFAAAHNRTC	828

RESULT 4
US-10-450-763-45847
; Sequence 45847, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 45847
; LENGTH: 898
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-45847

Query Match	73.5%;	Score 3031.5;	DB 5;	Length 898;
Best Local Similarity	91.2%;	Pred. No. 4.6e-291;		
Matches	578;	Conservative	2;	Mismatches 11; Indels 43; Gaps 2;
Qy	1	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL	60	
Db	250	QQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQDYPTRPPTGRPACCAWLGI	309	
Qy	61	LEVVPDVPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	120	
Db	310	LEVVPDVPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL	369	

Qy	121	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	180
Db	370	GIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR	429
Qy	181	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	240
Db	430	RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL	489
Qy	241	CLDCPFWLLSSACALAQ----AGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRW	296
Db	490	CLDCPFWLLSSACALAQVREEAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRW	549
Qy	297	DCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFFPERSRARRMLAGSVVIVVMVAVVV	356
Db	550	DCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFFPERSRARRMLAGSVVIVVMVAVVV	609
Qy	357	MCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVNLVFILILSKIYVSLAHVLT	416
Db	610	MCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVNLVFILILSKIYVSLAHVLT	669
Qy	417	RWEMHRTQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECA	476
Db	670	RWEMHRTQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECA	729
Qy	477	AGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFLRSKKRKAGASAGASQGPW	536
Db	730	AGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFLRSKKRKAGASAGASQGPW	789
Qy	537	EDDYELVPCEGLFDEYLEM-----VL	557
Db	790	EDDYELVPCEGLFDEYLEMGAGFCPNACPELVPTELTEPEKARDQPEARSAGQDSRPEAVL	849
Qy	558	QFGFVTIFVAAACPLAPLFALLNNWVEIRLDARKF	591
Db	850	QFGFVTIFVAAACPLAPLFALLNNWVEIRLDARKF	883

RESULT 5

US-10-104-047-2574

; Sequence 2574, Application US/10104047

; Publication No. US20030236392A1

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2574

; LENGTH: 920

; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-104-047-2574

Query Match 36.4%; Score 1502.5; DB 4; Length 920;
Best Local Similarity 40.4%; Pred. No. 4.5e-139;
Matches 328; Conservative 145; Mismatches 270; Indels 69; Gaps 20;

Qy	8	NTTVHYALLSASWAVLCYYAEDLRLKLPLQE----	LPNQASNWS-----	AGLLAWLGIP	57	
		: : : : : : : :				
Db	122	NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFMSRIDKQISRLRRWLPPK			181	
Qy	58	NVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGH			114	
		: : : : : : : :				
Db	182	PMRLDKETLPDLEENDCYTAPFSQQRHFI-IHNKETFFNNATRSRIVHHILQRIKY-E			239	
Qy	115	EKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQ			174	
		: : : : : : : :				
Db	240	EGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHRHLLYECWASGWVWYKYQ			299	
Qy	175	PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS			234	
		: : : : :				
Db	300	PLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVTTLDHSQVSKEVCQATDI			359	
Qy	235	FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA			293	
		: : : : : :				
Db	360	I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFFAVFMVWATVFLFWKRRRAVIA			418	
Qy	294	YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV			352	
		: : : : : : :				
Db	419	YDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFTDKCSRLIVSASGIFFMI			478	
Qy	353	AVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----	SRIASLTGSVV--	NLVFILIL	404	
		: : : : : : :				
Db	479	CVVIAAVFGIVIIYRVVTV-----	STFAAFKWALIRNNSQVAT-TGTAVCINFCIIMLL		530	
Qy	405	SKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNY			464	
		: : : : : : : : :				
Db	531	NVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLSSTFYIAFFLGRFTGHPGAY			590	
Qy	465	HTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRRLRSKKR			523	
		: : : : : : : :				
Db	591	LRLINRWRLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGYPLIQNWWTR--	RKVRQ		647	
Qy	524	KAGASAGASQGPWEDDYELVPCE--	GLFDEYLEMVLQFGFVTIFVAACPLAPL	FALLNNW	581	
		:				
Db	648	EHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTIFVAAFPLAPLLALLNNI			707	
Qy	582	VEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYR			641	
		: : : : : :				
Db	708	IEIRLDAYKFVTQWRRPLASRAKDIGIWIYGILEGIGILSVITNAFVIAITSDFIPRLVYA			767	
Qy	642	W-----	TRAHDLRGFLNFTLA-----	RAPSSFAAAHNRTC	CRYAFR	677
		: : : : : : : : : :				
Db	768	YKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDGSEFSGTPLKYCRYRDYR			827	

Qy 678 DDDGH-----YSQTYWNLLAIRLAFVIVFEHVVS VGRLLDLLVDPDIPESVEIKVKREYY 732
| : :|::|| |||:|||||:| : | : |::|: : : ::|| |
Db 828 DPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYLIPDLPKDLRDRMRREKY 887

Qy 733 LAKQALAENEVLFGTNGTKDEQPKGSELSSHW 764
| :: : | |: | : : | : |
Db 888 LIQEMMYEAELERLQKERKERKKNGKAHHNEW 919

RESULT 6

US-11-072-512-2574
; Sequence 2574, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
; LENGTH: 920
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2574

Query Match 36.4%; Score 1502.5; DB 6; Length 920;
Best Local Similarity 40.4%; Pred. No. 4.5e-139;
Matches 328; Conservative 145; Mismatches 270; Indels 69; Gaps 20;

Qy 8 NTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNWS-----AGLLAWLGIP 57

Db	122	NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFMSRIDKQISRLRRWLPPK	181
Qy	58	NVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGH	114
Db	182	PMRLDKETLPDLEENDCYTAPFSQQRHHFI-IHNKETFFNNATRSRIVHHILQRIKY-E	239
Qy	115	EKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWNKYQ	174
Db	240	EGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHRHLLYECWASWGVWYKYQ	299
Qy	175	PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS	234
Db	300	PLDLVRRYFGEKIGLYFAWLGWYTGMFLPAAFIFGLFVFLYGVTTLDHSQVSKEVCQATDI	359
Qy	235	FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA	293
Db	360	I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAVWATVFLEFWKRRRAVIA	418
Qy	294	YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV	352
Db	419	YDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFTDKCSRLIVSASGIFFMI	478
Qy	353	AVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIASLTGSVV--NLVFILIL	404
Db	479	CVVIAAVFGIVYRVVTV-----STFAAFKWALIRNNSQVAT-TGTAVCINFCIIMLL	530
Qy	405	SKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNY	464
Db	531	NVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLSSTFYIAFFLGRFTGHPGAY	590
Qy	465	HTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRRLRSKKR	523
Db	591	LRLINRWRLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGYPLIQNWWTR--RKVRQ	647
Qy	524	KAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTIFVAACPLAPLALLNNW	581
Db	648	EHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTIFVAAFPLAPLLALLNNI	707
Qy	582	VEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYR	641
Db	708	IEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITNAFVIAITSDFIPRLVYA	767
Qy	642	W-----TRAHDLRGFLNFTLA-----RAPSSFAAAHNRTCRYRAFR	677
Db	768	YKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDGSEFSGTPLKYCRYRDYR	827
Qy	678	DDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSVGRLLDLLVPDIPESVEIKVKREYY	732
Db	828	DPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYLIPDLPKDLRDRMRREKY	887
Qy	733	LAKQALAENEVLFGTNGTKDEQPKGSELSSHW	764
Db	888	LIQEMMYEALERLQKERKERKNGKAHHNEW	919

RESULT 7

US-11-582-861-10841
; Sequence 10841, Application US/11582861
; Publication No. US20070099251A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Hui
; APPLICANT: Aebersold, Rudolf H.
; TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: 460092.404
; CURRENT APPLICATION NUMBER: US/11/582,861
; CURRENT FILING DATE: 2006-10-17
; PRIOR APPLICATION NUMBER: US 60/728,044
; PRIOR FILING DATE: 2005-10-17
; NUMBER OF SEQ ID NOS: 14918
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10841
; LENGTH: 981
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-582-861-10841

Query Match 36.3%; Score 1498.5; DB 6; Length 981;
Best Local Similarity 40.3%; Pred. No. 1.2e-138;
Matches 327; Conservative 145; Mismatches 271; Indels 69; Gaps 20;

Qy 8 NTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNWS-----AGLLAWLGIP 57
| : : : | | | | | : : : | : | : |
Db 183 NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFMSRIDKQISRFRRWLPKK 242

Qy 58 NVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGH 114
: | | : | : : : | : | : : | : | : | : | : | : |
Db 243 PMRLDKETLPDLEENDCYTAPFSQQRHHFI-IHNKETFFNNATRSRIVHHILQRIKY-E 300

Qy 115 EKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWNKYQ 174
| | | : | : : | | | | | : | : : | | | | | | | |
Db 301 EGKNKIGLNRLLTNGSYEAAFPPLHEGSYRSKNSIRTHGAENHRHLLYECWASWGVMYKYQ 360

Qy 175 PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS 234
| | | | | | | : | | | | : | | | : | : : | : |
Db 361 PLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVTTLDHSQVSKEVCQATDI 420

Qy 235 FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA 293
| | : | | | | : | : | | : | | : : | | : | : |
Db 421 I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFFAVFMVWATVFLEFWKRRRAVIA 479

Qy 294 YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV 352
| | | : | : | | | | : | | : | : | : | : | : |
Db 480 YDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFTDKCSRLIVSASGIFFMI 539

Qy 353 AVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIASLTGSVV--NLVFILIL 404
| : : | : : | : : | : | | | : : : | : | : | : |

Db	540	CVVIAAVFGIVIVRVTV-----STFAAFKWALIRNNSQVAT-TGTAVCINFCIIMLL	591
Qy	405	SKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNY	464
		: : : : ::: ::: : : :	
Db	592	NVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLSSTFYIAFFLGRFTGHPGAY	651
Qy	465	HTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKR	523
		: :: : : :: : ::	
Db	652	LRLINRWRLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGYPLIQNWWTR---RKVRQ	708
Qy	524	KAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNW	581
		:	
Db	709	EHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTIFVAAFPLAPLLALLNNI	768
Qy	582	VEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYR	641
		: :: : : : : : : : : :	
Db	769	IEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITNAFVIAITSDFIPRLVYA	828
Qy	642	W-----TRAHDLRGFLNFTLA-----RAPSSFAAAHNRTCryRAFR	677
		: : : : : : : : : : : : : :	
Db	829	YKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDGSEFSGTPLKYCRYRDIR	888
Qy	678	DDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSVGRLLDLLVPDIPESVEIKVKREYY	732
		: : : : : : : : : : :	
Db	889	DPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYLIPDLPKDLRDRMRREKY	948
Qy	733	LAKQALAENEVLFGTNGTKDEQPKGSELSSHW	764
		: : : : : :	
Db	949	LIQEMMYEAELERLQKERKERKKNKKAHHNEW	980

RESULT 8
US-11-443-428A-801153
; Sequence 801153, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 801153

; LENGTH: 981
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-443-428A-801153

Query Match 35.7%; Score 1471.5; DB 6; Length 981;
Best Local Similarity 41.2%; Pred. No. 5.9e-136;
Matches 318; Conservative 142; Mismatches 241; Indels 71; Gaps 22;

Qy	20	WAVLCYYAEDLRKLP-----LQELPNQASNWSAGLLAWLGIPNVL-L	61
		:: : :	
Db	214	WDTLCKYAERLNIRMPFRKKCYTDRSKSMGRMQTYFRRIKNWMA-----QNPMVLDK	267
Qy	62	EVVPDV-PPEYYSCRFRVKNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPY--GHEKKN	118
		: : : :: : : :: : : : :	
Db	268	SAFPDLEESDCYTGPFSRARIHHFI-INNKDTFFSNATRSRIVYHMLERTKYENGISK--	324
Qy	119	LLGIHQLLAEGVLSAAFPLHDGPFKT---PPEGPQAPRLNQOVLQFQHWARWGKWNKYQ	174
		: : : :: : : :	
Db	325	-VGIRKLINNGSYIAAFPPEHAYKSSQPIKTHGPQ---NNRHLLYERWARWGMWYKHQ	379
Qy	175	PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS	234
		: : : : : : : : : : :	
Db	380	PLDLIRLYFGEKIGLYFAWLGWYTGMLIPAAIVGLCVFFYGLFTMNNSQVSQEICKATEV	439
Qy	235	FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA	293
		: : : : : : : : : : :	
Db	440	F-MCPLCDKNCSLQRLNDSCIYAKVTYLFDNGGTVFFAIFMAIWATVFLEFWKRRRSILT	498
Qy	294	YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV	352
		:: : : : : : :	
Db	499	YTWDLIEWEEEEETLRPQFEAKYKMEIVNPITGKPEPHQPSSDKVTRLLVSVSGIFFMI	558
Qy	353	AVVVMCLVSIILYR-AIMAIVVSRSNTLLAAWASRIASLTGSV-VNLVFILILSKIYVS	410
		: : : :: : : : : : : : :	
Db	559	SLVITAVFGVVVYRLVVMQFASFKNFIKQYW--QFATSAAAVCINFIIIMLLNLAYEK	616
Qy	411	LAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNIFYSSPVYIAFFKGRFVGYPGNYHTLFG-	469
		: : :: : : : : : : :	
Db	617	IAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGHPGKYNKLFDR	676
Qy	470	VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFLRSKKRKAGASA	529
		: :: : : : : :	
Db	677	WRLEECHPSGCLIDLCLQMGVIMFLKQIWNNFMELGYPLIQNWWSRHKI-----KRGIH-	730
Qy	530	GASQGPWEDDYELVP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLD	587
		: : :	
Db	731	DASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPLAPLLALLNNIIEIRLD	790
Qy	588	ARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRW-----	642
		: : : : : : : : :	
Db	791	AYKFVTQWRRPLPARATDIGIWLGILEGIGILAVITNAFVIAITSDYIPRFVYEYKYGPC	850
Qy	643	-----TRAHDLRGFLNFTLARAP-SSFAAAHNRTCRYRAFR-----DDDGHYSQTYWNLL	691

Query Match 35.7%; Score 1471.5; DB 6; Length 1046;
Best Local Similarity 41.2%; Pred. No. 6.5e-136;
Matches 318; Conservative 142; Mismatches 241; Indels 71; Gaps 22;

http://es.ScoreAccessWeb/GetItem.action?AppId=10552...552-515-1_copy_157_933.rapbm&ItemType=4&startByte=0 (16 of 27)10/10/2008 8:53:24 AM

Qy	294	YRWDCSDYEDTEERPRPQFAAS--APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV	352
		: : : : : : :	
Db	564	YTWDLIEWEEEEETLRPQFEAKYKMEIVNPITGKPEPHQPSSDKVTRLLVSVSGIFFMI	623
Qy	353	AVVVMCLVSIILYR-AIMAIVVSRSNTLLAAWASRIASLTGSV-VNLVFILILSKIYVS	410
		:: : : :: : : : : : : : :: :	
Db	624	SLVITAVFGVVVYRLVVMQFASFKNFKQYW--QFATSAAAVCINFIIIMLLNLAYEK	681
Qy	411	LAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNIFYSSPVYIAFFKGRFVGYPGNYHTLFG-	469
		: :: ::: :: : : : :	
Db	682	IAYLLTNLEYPRTSEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGHPGKYNKLFDR	741
Qy	470	VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLPKLKGWWQKFRLRSKKRKAGASA	529
		: :: : : : : ::	
Db	742	WRLEECHPSGCLIDLCLQMGVIMFLKQIWNNFMELGYPLIQNWWSRHKI-----KRGIH-	795
Qy	530	GASQGPWEDDYELVP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLD	587
		: : :	
Db	796	DASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPLAPLLALLNNIIEIRLD	855
Qy	588	ARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRW-----	642
		: : : : : : : :	
Db	856	AYKFVTQWRRPLPARATDIGIWLGILEGIGILAVITNAFVIAITSDYIPRFVYEYKYGPC	915
Qy	643	-----TRAHDLRGFLNFTLARAP--SSFAAAHNRTCryRAFR-----DDDGHYsQTYWNLL	691
		: : :: : : : : : : ::	
Db	916	ANHVEPSENCLKGYVNNSLSFDDLSELGMGKSGYCRYRDRGPPWSSKPYEFTLQYWHIL	975
Qy	692	AIRLAFVIVFEHVVFSGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEV	743
		: : : : : : : : ::: : : :	
Db	976	AARLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDIRREKYLQEMMYEAE	1027

RESULT 10
US-11-177-894-11
; Sequence 11, Application US/11177894
; Publication No. US20060040292A1
; GENERAL INFORMATION:
; APPLICANT: West, et al.
; TITLE OF INVENTION: Tumor Markers and Uses Thereof
; FILE REFERENCE: 2002850-0048
; CURRENT APPLICATION NUMBER: US/11/177,894
; CURRENT FILING DATE: 2005-07-08
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Homo sapiens
US-11-177-894-11

Query Match 35.4%; Score 1461.5; DB 6; Length 840;

Best Local Similarity 40.1%; Pred. No. 4.7e-135;
Matches 331; Conservative 149; Mismatches 260; Indels 85; Gaps 21;

Qy	5	QDGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLL	61
		: : : : : : : : : : :	
Db	28	RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMPTKKMYH--INETRGLLK--KINSVLQ	83
Qy	62	EVVPDVPPEYYSCR-----FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTP	111
		:: : : : : : : : : : : : : : : :	
Db	84	KITDPIQPKVAEHRPQTMKRLSYFPSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTT	142
Qy	112	YGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWN	171
		: : : : : : : : : : : :	
Db	143	CTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEFNDRLLYEEWARYGVFY	196
Qy	172	KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS	231
		: : : : : : : : :	
Db	197	KYQPIDLVRKYFGEKIGLYFAWLGVTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQ	256
Qy	232	KDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSA	290
		: : : : : : : : : : : : :	
Db	257	RHNITMCPLCDKTCYWKMSACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQM	316
Qy	291	TLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGS	345
		: : : : : : : : : : : : :	
Db	317	RLNYRWDLTGFEEDHPRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNL	374
Qy	346	VVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILS	405
		: : : : : : : : : : : : : : :	
Db	375	VSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIILLD	434
Qy	406	KIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNIFYSSPVYIAFFKGRFVGYPGNYH	465
		: : : : : : : : : : : : : : :	
Db	435	EVYGCJARWLTKIEVPKTEKSFEERLIFKAFLKLVNSYTPIFYVAFFKGRFVGRPGDYV	494
Qy	466	TLF-GVRNEECAAGGLIELAQELLVIMVGKQVI-NNMQEVLPKLGWWQKFRRLRSKKR	523
		: : : : : : : : : : : :	
Db	495	YIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQQSP	554
Qy	524	KAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVE	583
		: : : : : : : : : : : :	
Db	555	PDHEECVKKRQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLNNIIE	614
Qy	584	IRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRA--YYR	641
		: : : : : : : : : : :	
Db	615	IRLDAKKFVTELRRPVAVRAKDIGIWINILRGIGKLAVIIDAFVISFTSDFIPRLVLYLM	674
Qy	642	WTRAHDLRGFLNFTLARAPSSF-----AAAHN-----RTCryRAFRD---DDGH	682
		:: : : : : : : : : : : : : : :	
Db	675	YSKNGTMHGFVNHTL---SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENK	730
Qy	683	Y--SQTYWNLLAIRLAFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----	734
		: : : : : : : : : : :	
Db	731	YDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDIPKDISQIHKVKVLMVELFMR	790

```
Qy          735 ----KQALAENEVLFGTNGTKDEQP-----KGSELSSH 763
              || |   |           ||| |           ||   ||
Db          791 EEQDKQQLL--ETCMEKERQKDEPPCNHHNTKACPSLGGSPAPSH 833
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RESULT 11

US-11-177-894-7

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; Sequence 7, Application US/11177894
; Publication No. US20060040292A1
; GENERAL INFORMATION:
; APPLICANT: West, et al.
; TITLE OF INVENTION: Tumor Markers and Uses Thereof
; FILE REFERENCE: 2002850-0048
; CURRENT APPLICATION NUMBER: US/11/177,894
; CURRENT FILING DATE: 2005-07-08
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 960
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Transmembrane protein
US-11-177-894-7
```

```
Query Match          35.3%; Score 1456.5; DB 6; Length 960;
Best Local Similarity 40.2%; Pred. No. 1.8e-134;
Matches 333; Conservative 147; Mismatches 260; Indels 89; Gaps 22;
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Qy          5 QDGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLL 61
              :| :| :|   :   : | | |||   || |:|:| : :: :   | : |||   | :||
Db          144 RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMPTKKMYH--INETRGLLK--KINSVLQ 199

Qy          62 EVVPDVPPEYYSCR-----FRVNLKPRFLGSDNQDTFFTSTKRHQILFEILAKTP 111
              ::   : |:   |           |   |   |   || |:|:| |   |   |:|:| | :|
Db          200 KITDPIQPKVAEHRPQTMKRLSYPFSREKQHFLDLSD-KDSFFDSKTRSTIVYEILKRTT 258

Qy          112 YGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWN 171
              | : :||   ||| || :||:||||| :   :   | |:|:|:| |||:| :
Db          259 CTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEFNDRLKLLYEEWARYGVFY 312

Qy          172 KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 231
              ||||:| ||:|||||: ||||| || | |:|:|:| | :|| | | :   :||: |:|
Db          313 KYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQ 372

Qy          232 KDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSA 290
              : :   |||||   | :| :||||| |:|   |||:   ||||:|||||   |:|:||||
Db          373 RHNITMCPLCDKTCSYWKMSACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQM 432

Qy          291 TLAYRWDCSDYEDTEE----RPRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARM 341
              | |||| : :|: ||           || :: |           |   : | | | :   | |
Db          433 RLNYRWDLTGFEETEEEAVKDHPRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAY 490
```

```
Qy      342 LAGSVVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSSVNLVFI 401
      |  |  | : | : |  :: : | : |  ||  :: : :  : :  : |  : : | | |
Db      491 LTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVI 550

Qy      402 LILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYP 461
      : : | : : |  : |  || : | : : : | : |  | : : | | | | : | : | | | | | |
Db      551 ILLDEVYGCARWLTKIEVPKTEKSFEERLIFKAFLKLFVNSYTPIFYVAFFKGRFVGRP 610

Qy      462 GNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI-NNMQEVLIPKLKGWWQKFRLR 519
      | : |  : |  | | | | | | : |  : | : | : | : | | : | : | | : |  :  : :
Db      611 GDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLK 670

Qy      520 SKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLN 579
      :  :  :  : | | | | | | | | : | : | : | : | : | : | : | : | : |
Db      671 QOSPDPHEECVKKRQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLN 730

Qy      580 NWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRA- 638
      | : | | | | : | | | | | | | : | : | : | : | : | : | : | : | : |
Db      731 NIIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLV 790

Qy      639 -YYRWTRAHDLRGFLNFTLARAPSSF-----AAAHN-----RTCryRAFRD--- 678
      | : : :  : | : | | |  | |  | |  : | : | : | :
Db      791 YLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPW 846

Qy      679 DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSGRLLDLLVPDIPESVEIKVKREYYLA-- 734
      :  |  | : : | : | | | | | : : |  :  : | : : | : :  : : : |  |
Db      847 SENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDKDISQQIHKEKVLME 906

Qy      735 -----KQALAENEVLFGTNGTKDEQP-----KGSELSSH 763
      | | |  |  | | | |  | |  | |  |
Db      907 LFMREEQDKQQLL--ETWMEKERQKDEPPCNHHNTKACPDSLGSPPASH 953
```

RESULT 12

US-11-443-428A-774192

; Sequence 774192, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 774192
; LENGTH: 999
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-443-428A-774192

Query Match 34.9%; Score 1437; DB 6; Length 999;
Best Local Similarity 38.7%; Pred. No. 1.6e-132;
Matches 326; Conservative 161; Mismatches 263; Indels 92; Gaps 23;

Qy	1	QQDVQDGNNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQ-----ASNWSAGLLAW	53
		: ::: : : :: : :: : :	
Db	170	EKDLENKSQGSIFVRIHAPWQVLAREAEFLKIKVPTKKEMYEIKAGGSIKKFSAL---	226
Qy	54	LGIPNVLLEVVDPDVPPEYYSCRFRVNKLP-----RFLGSDNQDTFFTSTKRHQILFEIL	107
		: : : : : : : : :	
Db	227	---QKLSSHLQPRV-PEHSNNKMKNLSYPFSREKMYLYNIQEKDTFFDNATRSRIVHEIL	282
Qy	108	AKTPYGHEKKNLLGIHQLLAEGVLSAAFP LHDGPFKTPPEGPQAPRLNQRQVLFQHWARW	167
		: :	
Db	283	KRTACS-RANNTMGINSLIANNIYEAAYPLHDGEYDSPEDD-----MNDRKL LLYQEWARY	336
Qy	168	GKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQE	227
		: :: : : : : : : : : : ::	
Db	337	GVFYKFQPIDLIRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSRE	396
Qy	228	LCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWK	286
		: :: : : :	
Db	397	MCDQQNAFTMCPLCDKSCDYWNLSSACGTAQASHLFDNPATVFFSIFMALWATMFLENWK	456
Qy	287	RKSATLAYRWDCSDYEDTEER----PRPQFAA-----SAPMTAPNPIT----G	326
		: : ::	
Db	457	RLQMRLGYFWDLTGIEEEEEERAQEHSRPEYETKVREKMLKESNQSAVQKLETNTTECGDE	516
Qy	327	EDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSNTLLAAWAS	386
		: : : : : : : : : :	
Db	517	DDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYRITTAAALS-----LNKATRS	571
Qy	387	RI---ASLTGSVNLVFIILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNF	443
		: : : : : : : : : : : : : :	
Db	572	NVRVTVTATAVIINLVVILILDEIYGAVAKWLTKIEVPKTEQTFEERLILKAFL LKFNVA	631
Qy	444	YSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI-NNM	501
		: : : : : : : :	
Db	632	YSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCLMELCIQLSIIMLGKQLIQNNI	691
Qy	502	QEV LIPKLKGWWQKFR LRSKKRKAGASAGA-SQGP--WEDDYELVPCEGLFDEYLEMVLQ	558
		: : : : : : : : : :	
Db	692	FEIGVPKLK---KLFRKLKDETEAGETDSAHSKHPEQWDL DYSLEPYTGLTPEYMEMIIQ	748
Qy	559	FGFVTIFVAACPLAPL FALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTH	618
		: : : : : : : :	
Db	749	FGFVTLFVASFPLAPVFALLNNVIEVRLDAKKFVTELRRPD AVRTKDIGIWF DILSGIGK	808

Qy	619	LAVISNAFLLAFSSDFLPRAYYRWTRAHD--LRGFLNFTLA-----RAPSSFAA	665
		: : : : : : : : : : ::: : : : :	
Db	809	FSVISNAFVIAITSDFIPRLVYQYSYSHNGTLHGfVNHTLSFFNVSQlKEGTQpENSQfD	868
Qy	666	AHNRTCryRAFRD-----DDGHYSQTYWNLLAIRLAFVIVFEHVVFsvGRLLDLLVPDIP	720
		: : : : : : : : : : : : : : : : : :	
Db	869	QEVQfCRfKDYREPPWAPNPYEFsKQYWFILsARLAFVIIIfQNLVMfLSVLVDWMIPDIP	928
Qy	721	ESVEIKVKRE-----YYLAKQALAENEVLFGTNGTKDEQPKGSELSSHWTPFTVPKA-S	773
		: : : : : : : : : : : : : : : : : :	
Db	929	TDISDQIKKEKSLLVDFFLKE----EHEKLKLMDEPALRSPGGGDRSRsRAASSAPSGQS	984
Qy	774	QL	775
Db	985	QL	986

RESULT 13

US-11-443-428A-739452

; Sequence 739452, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

```
; APPLICANT: Mintz, Liat
```

; APPLICANT: Xie, Hangqing

```
; APPLICANT: Dahari, Dvir
```

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

```
; NUMBER OF SEQ ID NOS: 1034312
```

```
; SOFTWARE: PatentIn version 3.1
```

; SEQ ID NO 739452

```
; LENGTH: 800
```

```
; TYPE: PRT
```

```
; ORGANISM: Homo sapiens
```

US-11-443-428A-739452

Query Match 34.4%; Score 1417; DB 6; Length 800;
Best Local Similarity 40.3%; Pred. No. 1.2e-130;
Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps 22;

```

Qy      23 LCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----- 75
      || | |::|: ::: | : || | :|| :: : | : |
Db      7 LC--ARVLKCLKMPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

```

Qy	76	---FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS	132
		: : : :	
Db	61	SYPPFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA	118
Qy	133	AAFPPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFA	192
		: : : : : : :	
Db	119	AAYPLHDGDY-----NGENVEFNDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFA	173
Qy	193	WLGfYtGWLLPAAVVGTLVFLVGCFLVFSdiPTQELCGSKDSFEMCPLC-LDCPFWLLSS	251
		: : : : : : :	
Db	174	WLGvYTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSs	233
Qy	252	ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R	307
		: : : : : :	
Db	234	ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLTGFEeeeeEAVKDH	293
Qy	308	PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSI	362
		: : : : : : : :	
Db	294	PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV	351
Qy	363	ILYRAIMAIVVSRSGNTLLAAWASRIASLTGsvVNLVFiLiLSKIYVSLAHVLTRWEMHR	422
		: : : : : : : : : : : : :	
Db	352	IIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVViiLLDEvYGCIARWLTKIEVPK	411
Qy	423	TQTKFEDAFTLKVFIFQFVNfYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL	481
		: : : : : : : : :	
Db	412	TEKSFEERLIFKAFLlKFVNSYtPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL	471
Qy	482	IELAQELLVIMVGKQVI-NNMQEVLIPKLKGWWQKfRLRSKKRKAGASAGASQGPWEDDY	540
		: : : : : : : : :	
Db	472	MELCIQLSIIMLGKQLiQNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVkrKQRYEVDY	531
Qy	541	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAllNNWVEIRLDARKFVCEYRRPVA	600
		: : : : : : :	
Db	532	NLEPFAGLTPEYMEMIIQFGFVTlFVASFPLAPLFAllNNiIEIRLDAKKFVTELRRPVA	591
Qy	601	ERAQDIGIWfHILAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGfLNFTLAR	658
		: : : : : : :	
Db	592	VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFiPRLVYLYMYSKNGTMHGfVNHTL--	649
Qy	659	APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF	697
		: : : : : :	
Db	650	--SSFNVSDfQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF	707
Qy	698	VIVFEHVfVSVGRLLDLLVPDiPESVEIKVKREYYLA-----KQALAENEVLFGT	747
		: : : : : : : :	
Db	708	VIVfQNLVMfMSDFVDWVIPDiPKDISQqIHKEKVLmVELFMREEQDKQQLL--ETWMEK	765
Qy	748	NGTKDEQP-----KGSELSSH	763
Db	766	ERQKDEPPCNHHNTKACPDslGSPAPSH	793

US-11-443-428A-739454
; Sequence 739454, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 739454
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-443-428A-739454

Query Match 34.4%; Score 1417; DB 6; Length 800;
Best Local Similarity 40.3%; Pred. No. 1.2e-130;
Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps 22;

Qy 23 LCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLLEVVPDVPPEYYSCR----- 75
|| | |:|:| :: : | : || | | :|| :: : | : |
Db 7 LC--ARVLKCLKMPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

Qy 76 ---FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 132
| | | | | |:|:| | | |:|:| | | |:|:| | | |:|:| | | | :
Db 61 SYFFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA 118

Qy 133 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFGHWRWGKWNKYQPLDHVRRYFGEKVALYFA 192
| |:|:| | : : | |:|:| | |:|:| | |:|:| | |:|:| | | |
Db 119 AAYPLHDGDY-----NGENVEFNDRLKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFA 173

Qy 193 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS 251
| | | | |:|:|:| |:| | | : |:|:| : : | | | | | :| :|
Db 174 WLGVYTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTC SYWKMS 233

Qy 252 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R 307
| | | |:| | |:|: | |:|:| |:| | |:|:| | | |:|:| | | |:|:| |
Db 234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRNLNRYWDLTGFE EEE EAVKDH 293

Qy 308 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI 362
| |:| | | : | | |:| | | | |:|:| | | |:|:| | | : :
Db 294 PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV 351

Qy	363	ILYRAIMAIVVSRSNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTWRWEMHR	422
		: : : : : : : : : : : : : :	
Db	352	IIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIIILLDEVYGCJARWLTKIEVPK	411
Qy	423	TQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL	481
		: : : : : :	
Db	412	TEKSFEERLIFKAFLKLFVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL	471
Qy	482	IELAQELLVIMVGKQVI--NNMQEVLIPKLKGWWQKFRRLRSKKRKAGASAGASQGPWEDDY	540
		: : : : : : : : : :	
Db	472	MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVKKRQRYEVDY	531
Qy	541	ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA	600
		:	
Db	532	NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVA	591
Qy	601	ERAQDIGIWFHILAGLTHLAVISNAFLLAFFSSDFLPRA--YRWTRAHDLRGFLNFTLAR	658
		: : : : : :	
Db	592	VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGfVNHTL--	649
Qy	659	APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF	697
		: : : : : :	
Db	650	--SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF	707
Qy	698	VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGT	747
		: : : : : : : : : : :	
Db	708	VIVFQNLVMFMSDFVDWVIPDKDISQQIHKEKVLMMVELFMREEQDKQQLL--ETWMEK	765
Qy	748	NGTKDEQP-----KGSELSSH	763
Db	766	ERQKDEPPCNHHNTKACPDLSLGSPAPSH	793

RESULT 15
US-11-443-428A-739456
; Sequence 739456, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 739456
; LENGTH: 853
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-443-428A-739456

Query Match 34.3%; Score 1416; DB 6; Length 853;
Best Local Similarity 40.9%; Pred. No. 1.6e-130;
Matches 322; Conservative 142; Mismatches 248; Indels 76; Gaps 21;

Qy 23 LCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----- 75
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Db 7 LC--ARVLKLKMPKTKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

Qy 76 ---FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 132
| | | | :||:| | | | :||:| | | : :|| || | :
Db 61 SYPFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA 118

Qy 133 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFA 192
||:|||| : : | |::||: |||:| : |||:| ||:||||: ||||
Db 119 AAYPLHDGDY-----NGENVEFNDKLLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFA 173

Qy 193 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS 251
||| || | :||:| | :||| || : :||: |:| : : |||| | :| :||
Db 174 WLGVYTQMLIPASIVGIIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTC SYWKMS 233

Qy 252 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R 307
||| |:| |||: ||||:||||| :|:|||| | |||| : :|: ||
Db 234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLTGFEFFFFFFEAVKDH 293

Qy 308 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSI 362
|| :: | | : | | | : | | | | :| :|| :: :
Db 294 PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV 351

Qy 363 ILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHR 422
|:|| || :: : : : : : | :||| |:| :| :| ||: |: :
Db 352 ILYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVILLDEVYGCIARWLTKIEVPK 411

Qy 423 TQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL 481
|: ||: | |: :|| |: | :||| |||| |:| :| | |||| ||||
Db 412 TEKSFEERLIFKAFLKLVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL 471

Qy 482 IELAQELLVIMVGKQVI--NNMQEVLIPKLKGWWQKFRRLRSKKRKAGASAGASQGPWEDDY 540
:|| :| :||:||||:| ||: |: |||:| : :||: : :| ||
Db 472 MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVKKRQRYEVDY 531

Qy 541 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFA LLNNWVEIRLDARKFVCEYRRPVA 600
| | || ||:||:|||||:||||: ||||| ||||| :|||:| |||||
Db 532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFA LLNNIIEIRLDAKKFVTELRRPVA 591

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLLAFFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR 658
||:|||||:| || : |||| |||:|:|:|:| | :||: : ||:| ||

Db	592	VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFEVNHTL--	649
Qy	659	APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF	697
		: : : : : :	
Db	650	--SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF	707
Qy	698	VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGT	747
		::: : : :: : : :: :	
Db	708	VIVFQNLVMFMSDFVDWVIPDIPKDISQQIHKEKVLMLVELFMREEQDKQQLL--ETWMEK	765
Qy	748	NGTKDEQP	755
Db	766	ERQKDEPP	773

Search completed: June 24, 2008, 15:37:43
Job time : 350 secs

SCORE 3.0